BookletChart

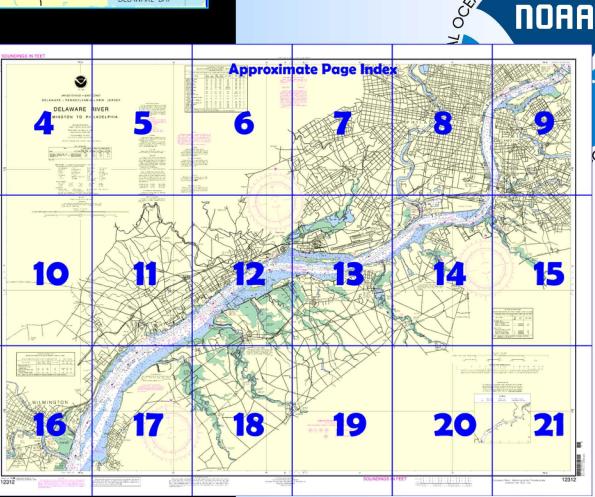
Wilmington to Philadelphia

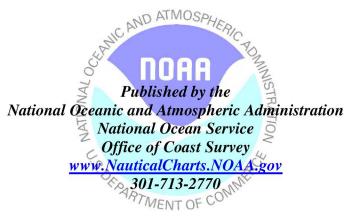
(NOAA Chart 12312)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ☑ Convenient size
- ☑ Up to date with all Notices to Mariners
- ☑ United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.





What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 3, Chapter 6 excerpts] (262) Edgemoor. The wharves of the E.I. duPont de Nemours Co., Edgemoor Plant, have depths of 20 feet at their outer ends. (263) A dike with its outer end submerged extends 0.3 mile offshore from Oldmans Point.

(265) **Oldmans Creek** has an unmarked channel leading from the Delaware River to the mouth of the creek. In 1973, extensive shoaling was reported at the entrance to and throughout Oldmans Creek. Mariners should

exercise extreme caution when transiting this area.

(266) A vertical-lift bridge and two swing bridges cross the creek between the mouth and **Pedricktown**; all are kept in a closed position. The limiting clearance of the bridges is 1 foot at the second bridge. (281) **Raccoon Creek.** The approach is a dredged channel that extends west-southwestward through the shallow flats for 1.1 miles from the

mouth. In 1993, the controlling depths were 4½ feet in the entrance channel, thence 3 feet on the centerline to Bridgeport, and thence 1 foot on the centerline to Swedesboro.

(282) The approach channel is marked by buoys, and a light marks the outer end of the rock jetty on the south side of the entrance.

(283) The U.S. Route 130 bridge at **Bridgeport** has a vertical-lift span with clearance of 4 feet down. The ConRail bridge 0.3 mile above the highway bridge has a clearance of 7 feet. Gasoline and minor repairs are available at a small marina on the north bank 1 mile below the highway bridge.

(284) Between Bridgeport and **Swedesboro** the least bridge clearances are: swing bridge, , 6 feet vertical; fixed bridges, 8 feet vertical.

(292) **Chester Creek**. The railroad bridge just above the mouth has a clearance of 1½ feet.

(293) Above that point, navigation is restricted by the 6-foot minimum clearance of the fixed bridges. Navigation is suitable only for very shallow-draft boats to the second bridge.

(294) The current velocity is 1.7 knots on the flood and 2.2 knots on the ebb off **Eddystone**.

(295) **Darby Creek** was reported to be shoaled to an unknown extent in the entrance. The railroad bridges, 0.3 mile above the mouth, have minimum clearances of 3 feet. Parallel highway bridges, 1.2 miles above the mouth, have a least clearance of 4 feet. Oil barges go to the wharf with 7 feet alongside just below the railroad bridges; above this point, the creek is used only by small pleasure craft. Submerged piles, marked at the outer end by a 55-gallon drum, extend 150 yards south-southeast from the west side of the entrance.

(296) **Essington** has boatyards that can provide berths, fuel, and supplies. An unmarked channel parallel to and 450 feet from the centerline of the dike has a controlling depth of 5½ feet; shoals are on both sides of the channel. Local vessels usually pass the west end of the island where the controlling depth is 9 feet.

(297) A **special anchorage**. Depths are 9 to 20 feet in the anchorage. The current velocity is about 1.3 knots. In 1978, a piling was reported in the anchorage area 0.5 mile eastward of the entrance to Darby Creek. (298) Gasoline, diesel fuel, water, ice, berths, and marine supplies are available along the Essington waterfront.

(300) A **general anchorage** is between Thompson Point and Crab Point and the south side of the main channel. The current velocity is about 2 knots a half-mile east of Crab Point.

(305) Mantua Creek is used only by small boats.

(306) The Mantua Creek entrance jetties are marked by lights, and the entrance channel is marked by buoys. In August 1998, the centerline controlling depth in the dredged channel was 11 feet for 0.7 mile above the mouth; thence in 1981, 7 feet to **Priars Landing**, thence 4½ feet to **Parkers Landing**, and thence less than 1 foot to Mantua.

(307) The ConRail bridge 1.3 miles above the mouth has a clearance of 1 foot. State Route 44 bridge has a vertical-lift span with clearance of 5 feet down and 64 feet up. Above this point, the fixed bridges have minimum clearances of 10 feet.

(308) The wharves below the first bridge on Mantua Creek have depths of 20 to 14 feet alongside.

(309) A **general anchorage** is on the southeasterly side of the main channel above the entrance to Mantua Creek. The current velocity is about 2 knots in the channel opposite the anchorage.





Corrected through NM Aug. 1/09 Corrected through LNM Jul. 28/09



HEIGHTS Heights in feet above Mean High Water.

Mercator Projection Scale 1:40,000 at Lat. 39°51'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

LOCAL MAGNETIC DISTURBANCE

BADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

CAUTION

Mariners are warned to stay clear of the pro tective riprap surrounding navigational light structures shown thus:

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts.
The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

KHB-38 KIH-28 WXK-97 Philadelphia, PA Sudlersville, MD 162.500 MHz

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 3 for important supplemental information.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which is North American Datum of 1983 (MDL 93), white for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.405" northward and 1.318" eastward to agree with this chart.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

Table of Selected Chart Notes

POLLUTION REPORTS

Report all spills of oil and hazardous sub-stances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus: ⊙(Accurate location) o(Approximate location)

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Virginia or at the Office of the District Engineer, Corps of Engineers in Philadelphia, Pennsylvania.

Refer to charted regulation section numbers.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

Additional information can be obtained at nauticalcharts.noaa.gov.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charing. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LIMM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

ANCHORAGE AREAS

Limits and assigned numbers of anchorage areas are shown in magenta





GENERAL ANCHORAGES



NAVAL ANCHORAGE

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

o Navigation (lights are white	unless otherwise indicated):
AERO aeronautical	G green
AT THE RESERVE OF THE PERSON O	10 1 1 1 1 1

B black Bn beacon C can DIA diaphone F fixed IQ interrupted quick Iso isophase LT HO lighthouse M nautical mile m minutes MICRO TR microwave tower

Mo morse code

N nun OBSC obscured Oc occulting Or orange Osc oscillating Q quick R red Ra Ref radar reflector R Bn radiobeacon

Rot rotating s seconds SEC sector St M statute miles VQ very quick W white WHIS whistle

FI flashing Blds boulders

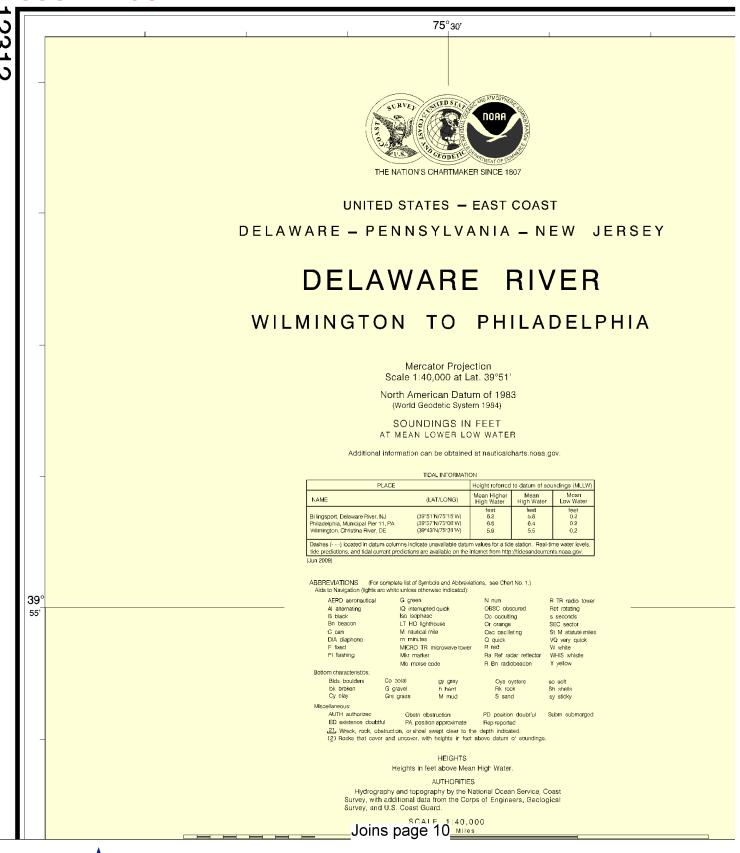
gy gray h hard M mud Co coral Oys oysters Rk rock bk broken Cy clay sy sticky Grs grass S sand Subm submerged

Miscellaneous: AUTH authorized ED existence doubtful Obstn obstruction PD position doubtful PA position approximate

.21, Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4868, http://NoatuciaCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@OceanGrafix.com







25' 201

DELAWARE RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2009 CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW WIDTH (FEET) MLLW (FEET) CHERRY ISLAND RANGE BELLEVUE RANGE 4.33 3.05 4.25 38.7 38.9 39.6 41.4 800 MARCUS HOOK RANGE 800 39.2 39.7 41.2 40.7 40.8 5-08 6-09 40.6 800 800 800 800 CHESTER RANGE 39.3 40.8 1.82 38.0 38.5 39.7 37.5 42.2 40.7 41.9 41.4 40.5 37.9 36.0 37.3 1.08 3.03 1.15 40.8 40.7 41.0 8-09 8-09 7-09 EDDYSTONE RANGE TINICUM RANGE BILLINGSPORT RANGE MIFFLIN RANGE 39.0 6-09 800 2.83 40 EAGLE POINT RANGE 41.1 38.8 (NAVY YARD) 36.3 40.3 39.9 41.8 7-09 800 40 40 HORSESHOE BEND 33.3 43.7 7-09 800-500 0.80 EAST HORSESHOE RANGE AND REACH M REACH M TO BENJAMIN FRANKLIN 39.8 43.1 44.5 42.5 6-09 1.17 BRIDGE 22.6 34.4 39.0 37.0 6-09 400 2.95 40 BENJAMIN FRANKLIN BRIDGE TO CAMBRIA ST. CAMBRIA ST. CAMBRIA ST. TO ALLEGHENY AVE. HARBOR RANGE 6-09 6-09 7-08 7-08 30 A 4nn 0.42 0.70 400 400 38.2 37.4 FISHER CHANNEL 38.8 43.3 41.8 400 0.31 40 40 DRAW CHANNEL 41.2 42.6 43.0 39.2 2-09 400 0.74 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.405" northward and 1.318" eastward to agree with this chart.

WARNING

The prudent mariner will not rely solely on any single aid to ravigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endan-

gered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUT ON

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broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:

(Accurate location) c(Approximate location)

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Atlantic City, NJ KHB-38 162,400 MHz Philadelphia, PA Sudlersville, MD KIH-28

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 3 for important supplemental information.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning a ds to navigation



Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Virginia or at the ffloe of the District Engineer, Corps of Engineers in illadelphia, Pennsylvania.

Refer to charted regulation section numbers.

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

POLLUTION REPORTS

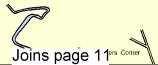
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

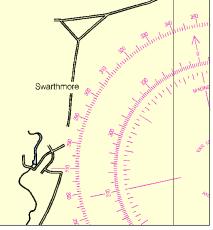
CAUTION

Mariners are warned to stay clear of the pro-tective riprap surrounding navigational light structures shown thus:

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.





This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

Joins page

Spr

25' 201 19' DELAWARE RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2009 CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) WIDTH (FEET) SUBMARINE PIPE CHERRY ISLAND RANGE BELLEVUE RANGE MARCUS HOOK RANGE 39.6 41.4 4.33 3.05 Charted submarine cables and submarine 39.2 40.7 40.8 40.8 5-08 8-09 800 4.25 40 40 40 40 40 40 800 800 800 800 CHESTER RANGE 99.3 41.2 40.6 1.82 38.0 38.5 39.7 37.5 40.5 37.9 36.0 1.08 3.03 1.15 40.8 40.7 41.0 42.2 40.7 41.9 EDDYSTONE RANGE 8-09 TINICUM RANGE BILLINGSPORT RANGE MIFFLIN RANGE EAGLE POINT RANGE Pipeline Area 39.0 41.4 37.3 6-09 800 2.83 Additional uncharted Additional uncharter submarine cables mathis chart. Not all submarine cables are ret those that were orig become exposed. Mar caution when operati water comparable to t pipelines and cables anohoring, dragging.

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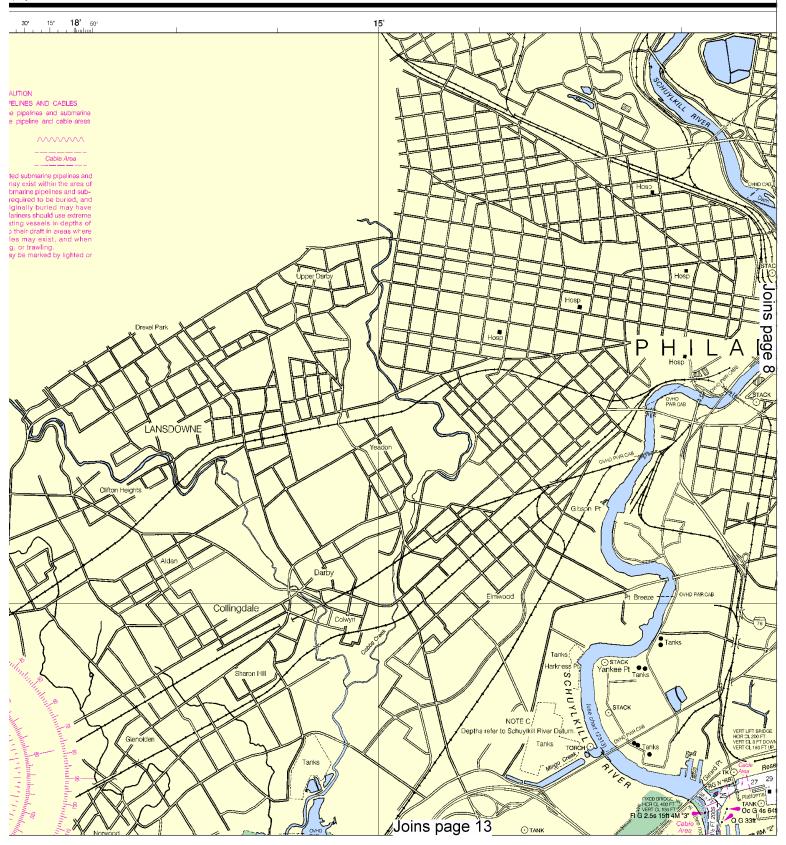
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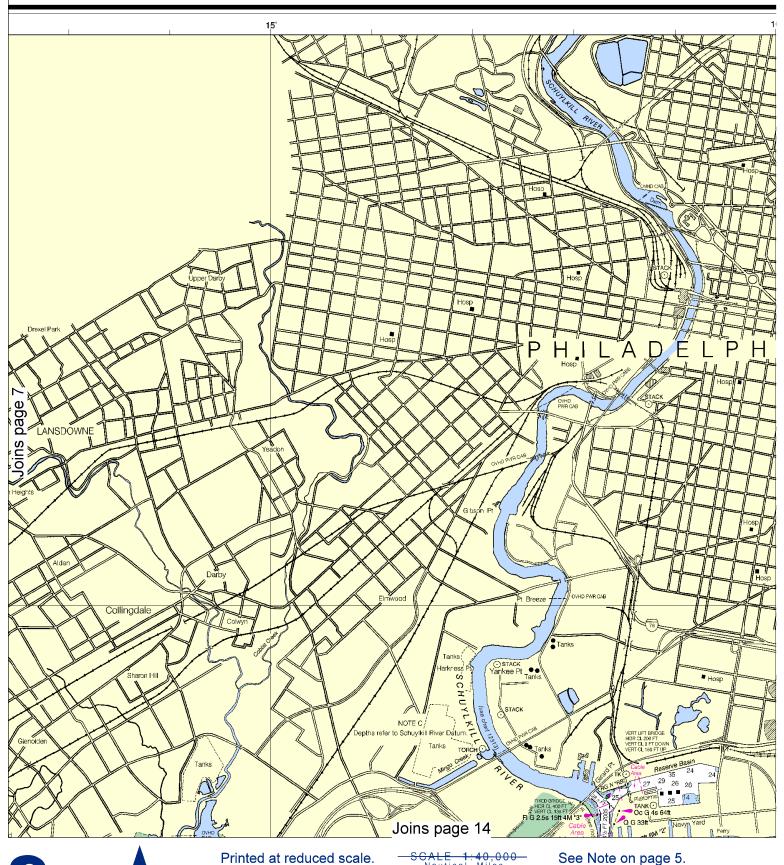






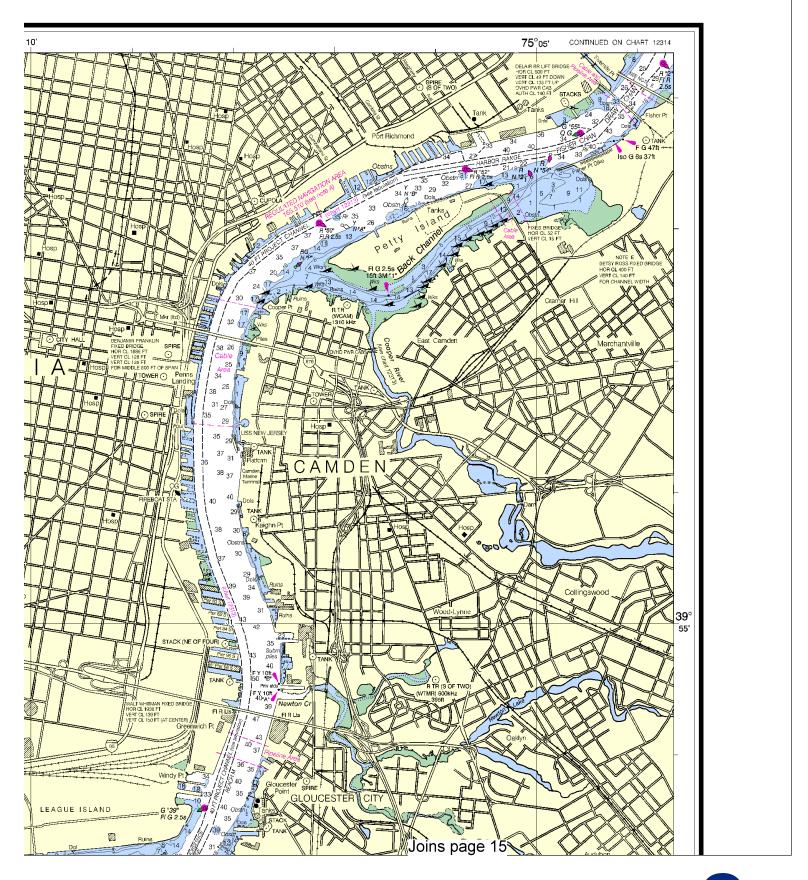


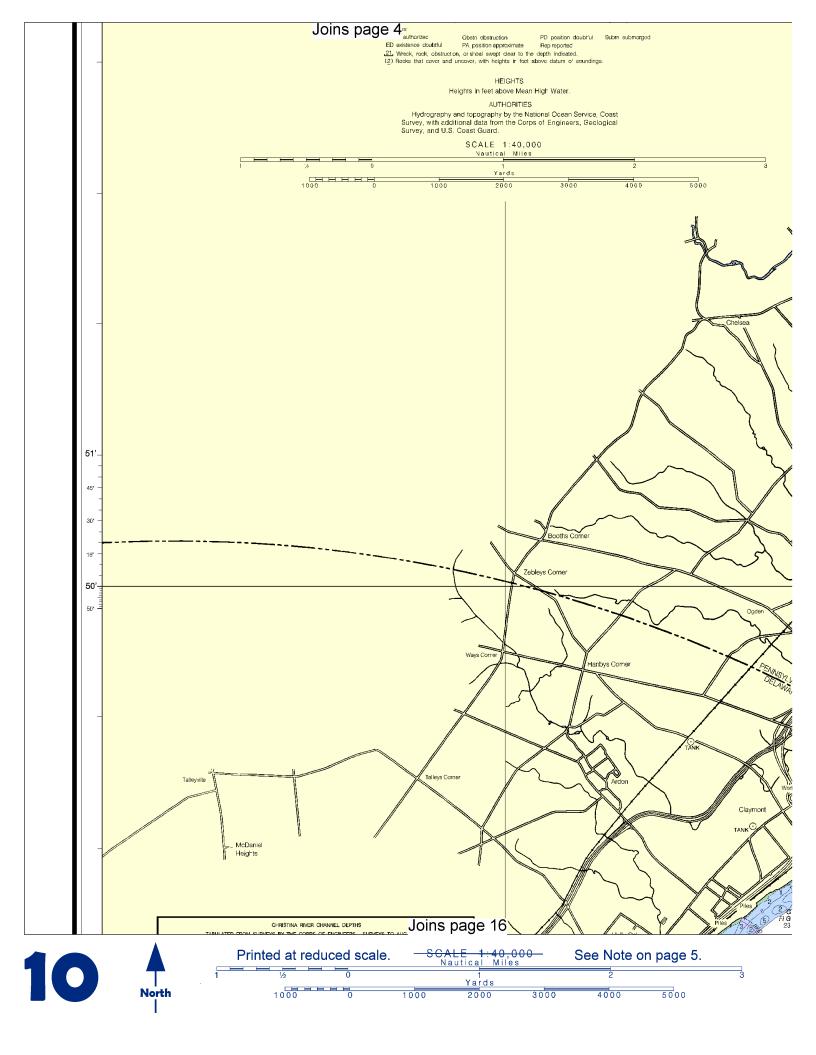


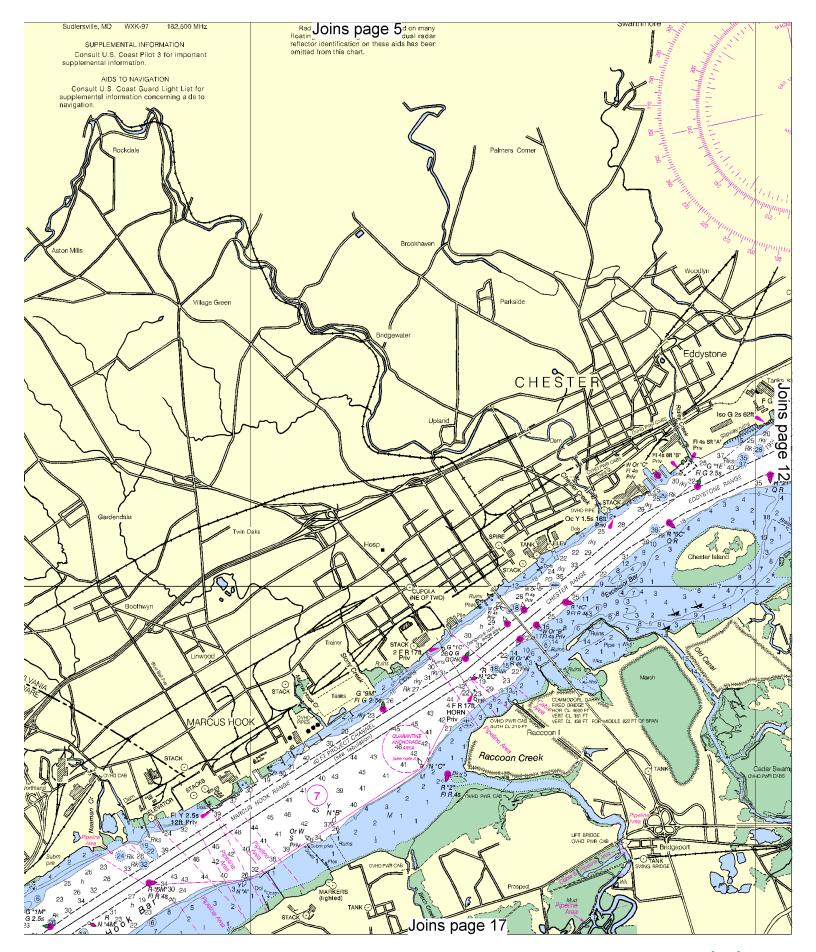








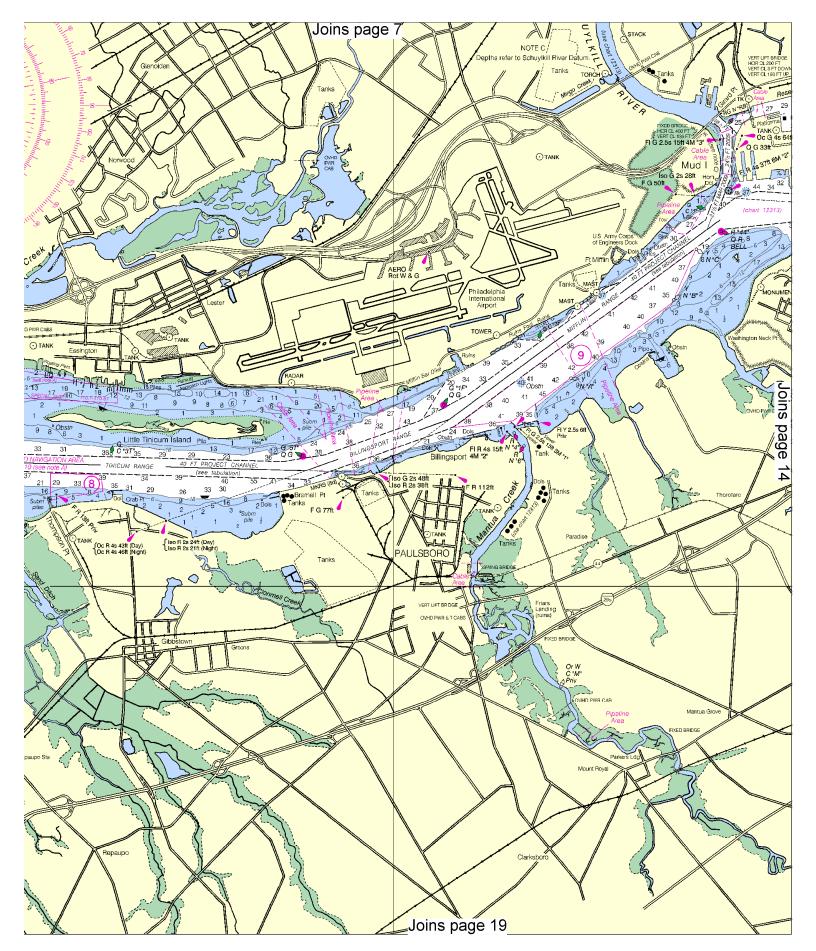


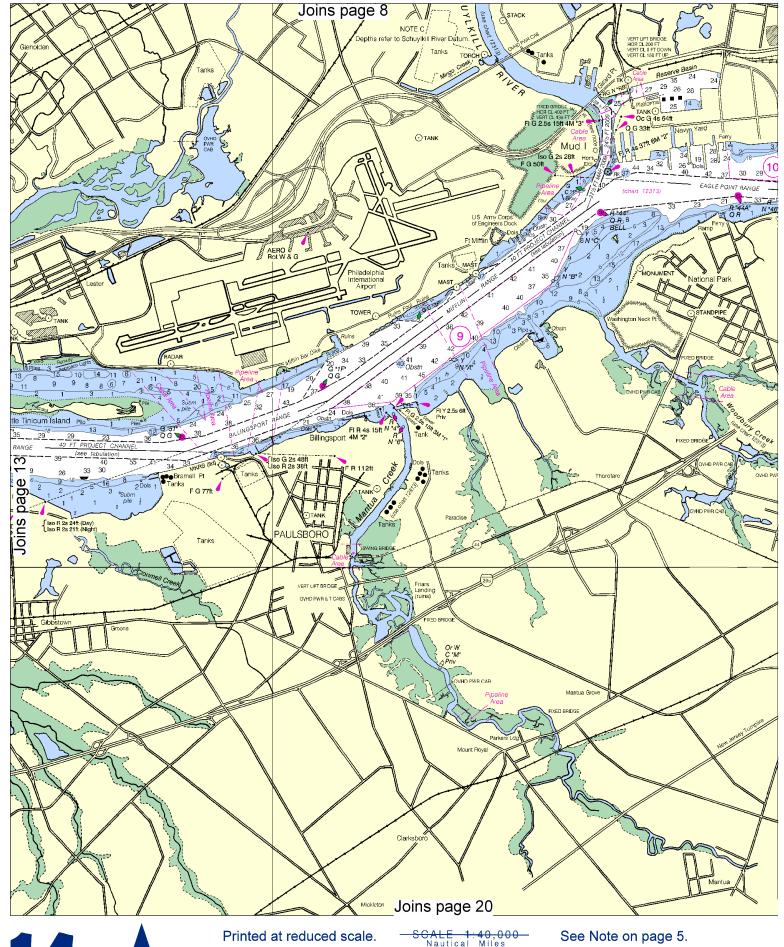




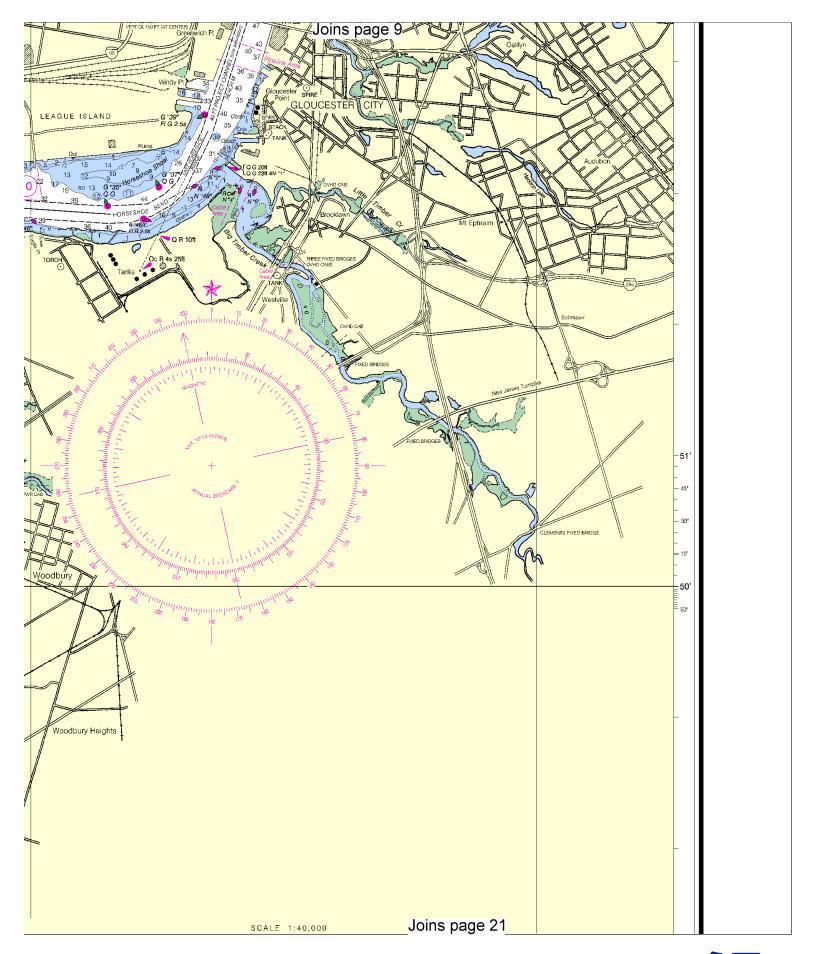


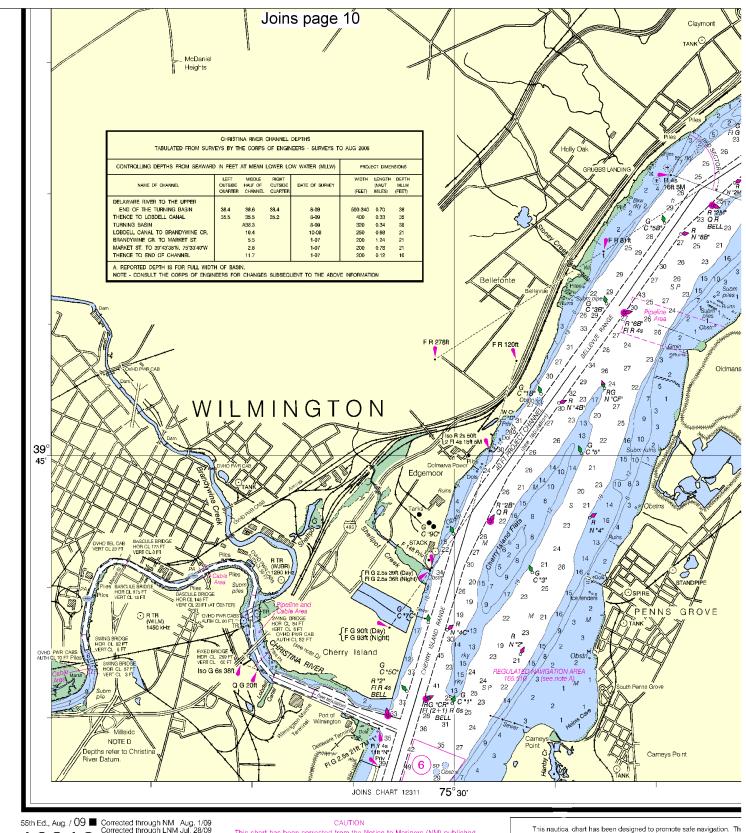












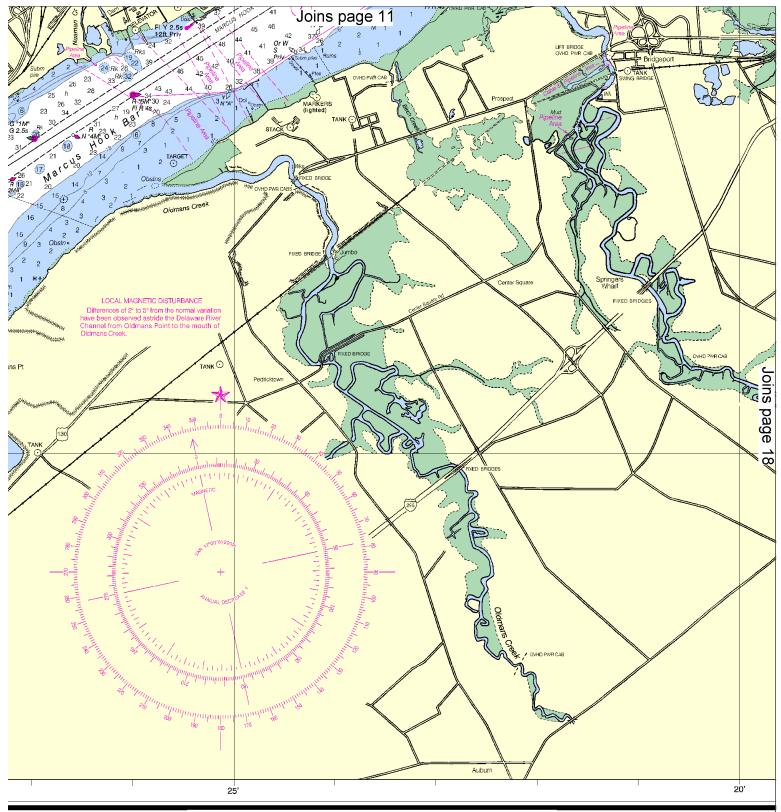
55th Ed., Aug. / $09 \blacksquare$ Corrected through NM Aug. 1/09 Corrected through LNM Jul. 28/09

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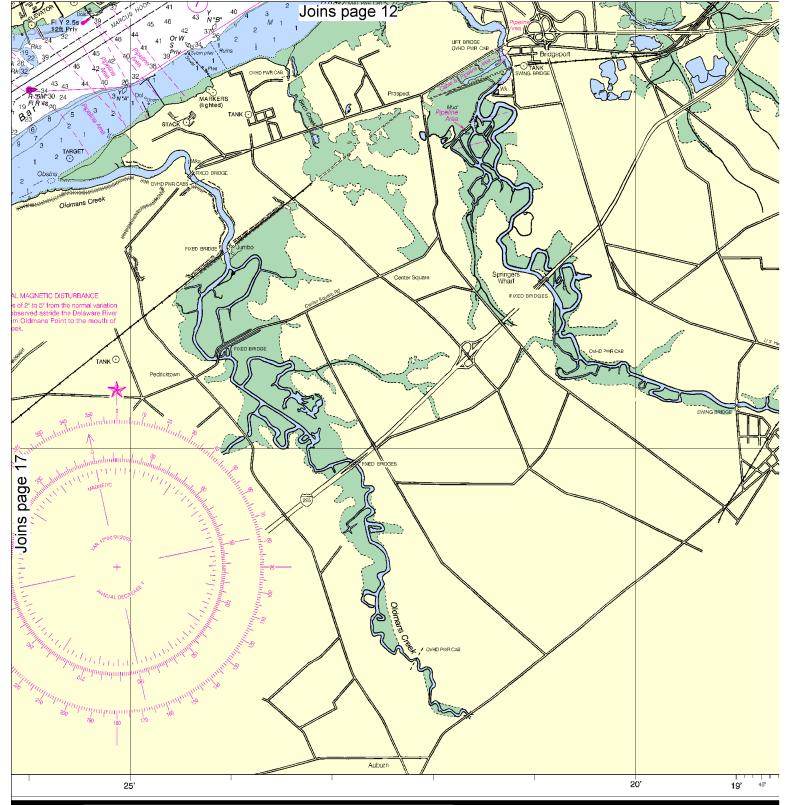


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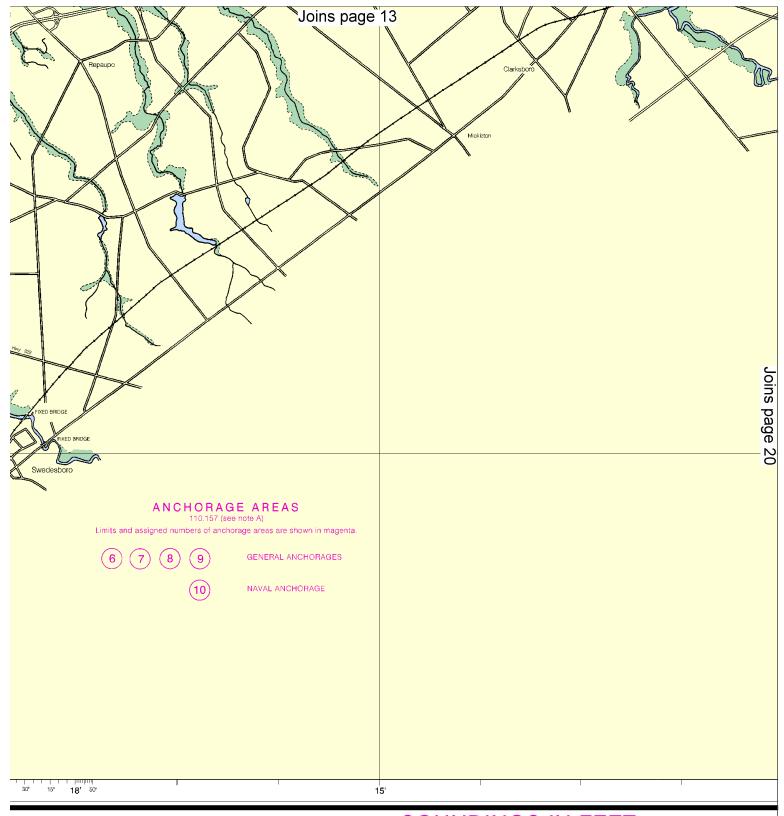
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Published at Washington, U.S. DEPARTMENT OF CON, NATIONAL OCEANIC AND ATMOSPHERIC NATIONAL OCEAN SERV COAST SURVEY



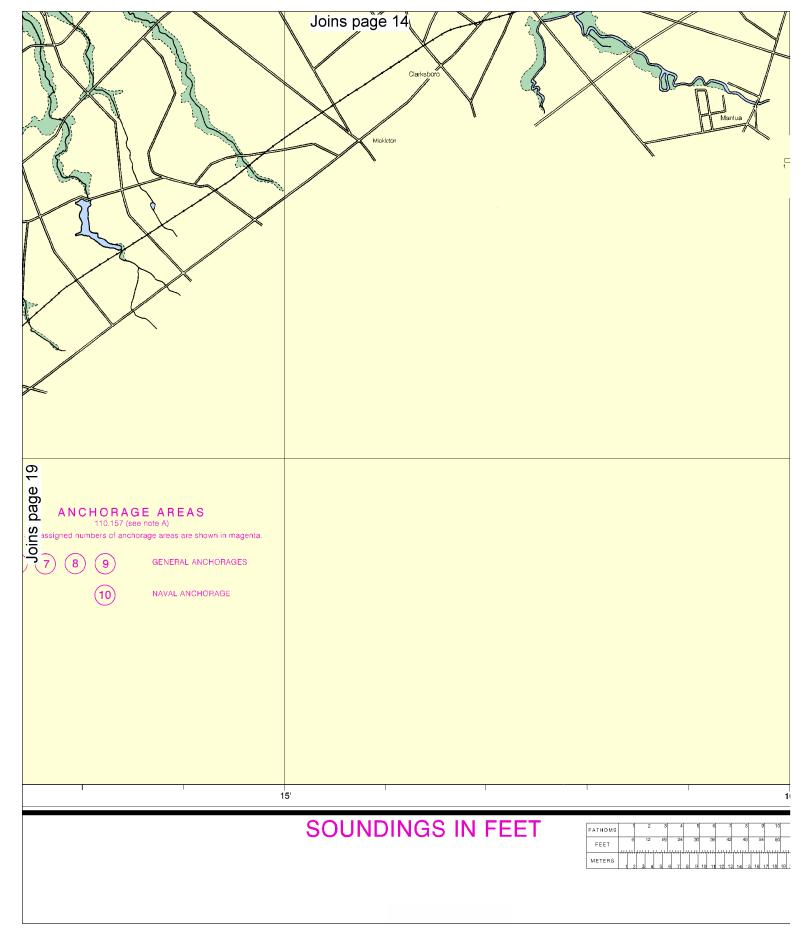




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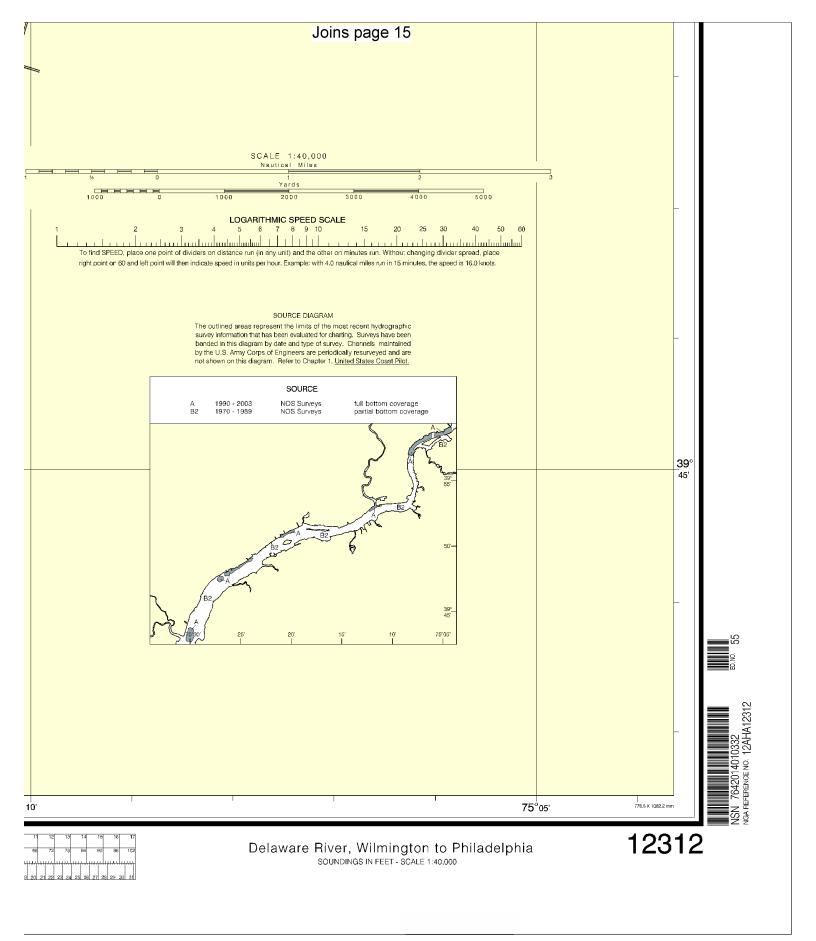
SOUNDINGS IN FEET

FATHOMS		1		2	3		4
FEET		6		12	18		24
METERS	1	2	3	4	5	6	7









EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

- 1. Make sure radio is on.
- 2. Select Channel 16.
- 3. Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- 6. Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!!

Mobile Phones – Call 911 for water rescue.

Coast Guard Philadelphia – 215-271-4944 **Coast Guard Search & Rescue** – 800-418-7314/410-576-2525

New Jersey Marine Patrol, Burlington – 609-387-1221

Delaware Marine Police – 302-736-4580 **Philadelphia Marine Police –** 215-271-4971

<u>NOAA Weather Radio</u> – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts — These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) -

ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs[™]) –

RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketChartsTM – PocketChartsTM are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.Noa.gov, <a href="